

DEPARTMENT OF THE NAVY

NAVAL SUPPORT ACTIVITY WASHINGTON 1411 PARSONS AVENUE SE, SUITE 340 WASHINGTON NAVY YARD DC 20374-5034 RECEIVED EPA REGION III

JUL 2 9 2014

NPDES PERMITS BRANCH (3WP41)

5090 Ser N4/232 July 25, 2014

Mr. Brain P. Trulear Chief, Permits Branch

EPA Region, (3WP41) 1650 Arch Street Philadelphia, PA 19103

Dear Mr. Trulear:

SUBJECT: PERMIT RENEWAL APPLICATION FOR WASHINGTON NAVY YARD, NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT (NPDES) PERMIT DC0000141

Naval Support Activity Washington is submitting the renewal application for NPDES Permit DC0000141. The application is being submitted in accordance with the permit and Code of Federal Regulations (C. F.R.) §122.41 (b).

If you have questions or need any additional information, you may contact Ms. Rita Smith who can be reached at (301) 227-0001 or via email at rita.smith1@navy.mil

Sincerely,

DURANT S. GRAVES

Installation Environmental Program Director By direction of the Commanding Officer

Enclosures: (1) Permit Renewal Application, NPDES Permit DC0000141

Final

National Pollutant Discharge Elimination System Permit Application

Washington Navy Yard Washington, DC

Contract Task Order JU85
July 2014

Prepared for

Department of the Navy Naval Facilities Engineering Command Mid-Atlantic

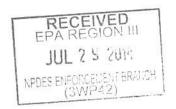
Under the

NAVFAC Multimedia Program Contract N62470-10-D-3009

Prepared by



Chantilly, Virginia



Application Forms and Supporting Data

USEPA Application forms and supporting data are presented in the following attachments.

Attachments

- Permit Application Forms
 - USEPA Form 1
 - USEPA Form 2F
 - Outfall 001
 - Outfall MS4-001E
 - Outfall 005
 - Outfall 006
 - Outfall 007
 - Outfall 008
 - Outfall 009
 - Outfall 013
 - Outfall 014A
 - Outfall CSO-015G
 - Outfall CSO-015H

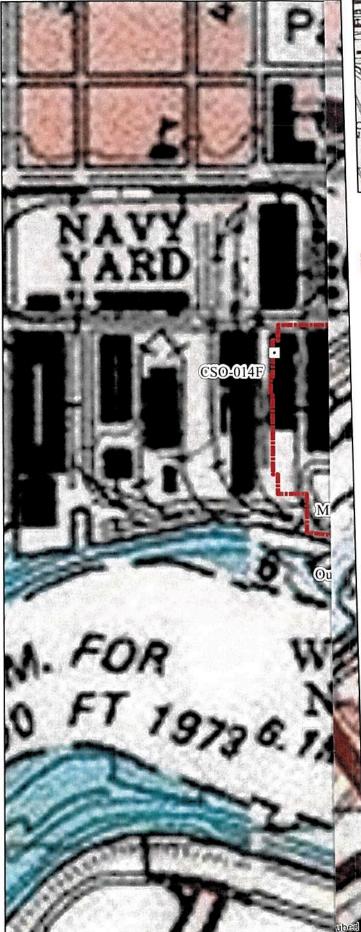
Form 2c?

USEPA Form 1

• Attachment 1-XI – WNY Topographic Map

FORM		U.S. ENVIRO	ONME	NTAL	PROTECT	ON AGENCY		I. EPA I.D. NUMBER	支 盘	1		从 性
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I. EPA I.D.	NUMBER							appropriate fill-in area below. Also, if	any of	the prep	printed	i data
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		reat, store, or dispose of	22	23	24			ct at this facility industrial or	25	26	- 2	17
hazardous	wastes? (FORM:	3)		X		containing, within o	ne q	ow the lowermost stratum uarter mile of the well bore, inking water? (FORM 4)		X		
		s facility any produced water	28	29	30		VALUE OF THE PARTY	at this facility fluids for special	31	32		13
connection v inject fluids	with conventional used for enhance	brought to the surface in oil or natural gas production, ed recovery of oil or natural age of liquid hydrocarbons?		×		solution mining of m	inera	of sulfur by the Frasch process, ils, in situ combustion of fossil rmal energy? (FORM 4)		×		
	v a proposed stat	tionary source which is one	34	35	36	J. Is this facility a pro	posed	d stationary source which is	37	38		19
of the 28 ind	fustrial categories	listed in the instructions and tons per year of any air		X		NOT one of the 28	indu	ustrial categories listed in the II potentially emit 250 tons per		X		
pollutant reg	ulated under the	Clean Air Act and may affect	40	41	42	year of any air polluta	ant re	gulated under the Clean Air Act	43	44		
or be located	d in an attainment	area? (FORM 5)	-0	- 50	~	(FORM 5)	oe 100	cated in an attainment area?	*3			15
III. NAME OF	FACILITY								100			物感
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IV. FACILITY	CONTACT		刺染		(FE 33)		25.5		00		215	
		A. NAME & TITLE (last	, first,	& title)				B. PHONE (area code & no.)				
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3 1411 P.	ARSONS AV	E SE SUITE 200										
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6 WASHIN	GTON '				1 1 1	40 41 42	20	374	-54		_	

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VII. SIC CODES (4-digit, in order of priority)		
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7 9711	(specify)	
15 16 · 16	15 76 - 19	
C. THIRD	c (specify)	D FOURTH
7	7 (Specify)	
NIII OPERATOR INFORMATION	15 16 - 79	1
VIII. OPERATOR INFORMATION A. NAME	18月2日 18月2日 1875年 18月1日	B. Is the name listed in Item
	TITITITITITI	VIII-A also the owner?
8 WASHINGTON NAVY YARD		☑ YES ☐ NO
		56 66
C. STATUS OF OPERATOR (Enter the appropriate letter		D. PHONE (area code & no.)
F = FEDERAL S = STATE M = PUBLIC (other than federal or state)	F (specify)	П
P = PRIVATE O = OTHER (specify)	56	
E. STREET OR P.O. BOX	54	15 6 - 18 19 - 21 22 - 2
1411 PARSONS AVE SE SUITE 200		
29	85	
F. CITY OR TOWN	G. STATE H. ZII	IP CODE IX. INDIAN LAND
B WASHINGTON		Is the facility located on Indian lands?
B WASHINGTON	DC 2037	74 DYES DNO
	40 41 42 47 -	- 51
X. EXISTING ENVIRONMENTAL PERMITS A. NPDES (Discharges to Surface Water) D. PSD	MANUAL CHARLES OF THE PARTY OF	
C T C T	(Atr Emissions from Proposed Sources)	
9 N DC0000141 9 P DC0	007 - TITLE V	
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B. UIC (Underground Injection of Fluids)	E. OTHER (spec	ects)
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C. RCRA (Hazardous Wastes)	E. OTHER (spec	ecfs)
		(specify)
9 R DC9170024210 9		
15 to 17 ts XI MAP	33	
Attach to this application a topographic map of the area extending to at lea		
location of each of its existing and proposed intake and discharge structures	each of its hazardous wasta treatment stee	esen as disposed facilities and such well about
injects fluids underground. Include all springs, rivers, and other surface water	bodies in the map area. See instructions for p	precise requirements. See Attachment 1-XI
XII. NATURE OF BUSINESS (provide a brief description)		
THE WASHINGTON NAVY YARD CONTINUES TO BE THE 'QUART	ERDECK OF THE NAVY' AND SERVE	ES AS THE HEADQUARTERS FOR NAVAL
DISTRICT WASHINGTON. THE YARD HOUSES NUMEROUS SUPPO	ORT ACTIVITIES FOR THE FLEET A	AND AVIATION COMMUNITIES.
XIII CERTIFICATION (see instructions)	《范围录记》 [1] [1] [2] [2] [2] [2] [2] [2] [2] [2] [2] [2	24.6 H 5 H 5 H 5 H 5 H 5 H 5 H 5 H 5 H 5 H
I certify under penalty of law that I have personally examined and am familia	r with the information submitted in this applic	cation and all attachments and that based on mi
inquiry of those persons immediately responsible for obtaining the information	n contained in the application, I believe that I	the information is true, accurate, and complete.
am aware that there are significant penalties for submitting false information, i	ncluding the possibility of fine and imprisonme	pent.
A. NAME & OFFICIAL TITLE (type or print) B. SIGN.	ATURE	C. DATE SIGNED
MONTE ULMER, COMMANDING OFFICER NSA	111 \ 91/1	100 MATERIAL
WASHINGTON	Ill Jelma	2350614
COMMENTS FOR OFFICIAL USE ONLY		THE STREET STREET
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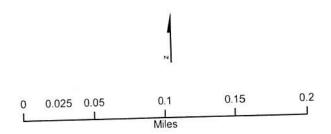


LEGEND

Outfalls

Installation Boundary

Outfall CSO-014F is inactive and out of operation.



Attachment 1-XI Washington Navy Yard Washington, D.C.

USEPA Form 2F

- Attachment 2F-I/IVA WNY Outfalls
- Attachment 2F-III WNY Site Drainage Map
- Attachment 2F-IVB- Material Storage Areas
- Attachment 2F-IVC –Best Management Practices
- Attachment 2F-V Illicit Discharge Survey Summary

Please print or type in the unshaded areas only.

Form Approved. OMB No. 2040-0086 Approval expires 5-31-92

D. Receiving Water

(name)

2F SEPA

Outfall Location

A. Outfall Number

SEE ATTACHMENT 2F-I/IV.A U.S. Environmental Protection Agency Washington, DC 20460

Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

C. Longitude

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

			 		
			 		
				44	
II. Improvements					
treatment equipment or practices	or any other env e or enforcement	vironmental programs which may nt orders, enforcement complian	plementation schedule for the construction, upgrading affect the discharges described in this application? To ce schedule letters, stipulations, court orders, and gran	nis includes, but is nt or loan condition	s not limited
1. Identification of Conditions,		Affected Outfalls			ince Date
Agreements, Etc.	number	source of discharge	Brief Description of Project	a, req.	b. proj.
NOT APPLICABLE					
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	-				
				-	
and the second s			1		
B: You may attach additional sheets	describing any a	additional water pollution (or othe	r environmental projects which may affect your discha-	rges) you now har	ve under

III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfalls(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall, paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage of disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which received storm water discharges from the facility.

SEE ATTACHMENT 2F-III

way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

Continued from the Front

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Outfall	by the outfall.	(include units) of imperious surf	faces (including paved	areas and building roofs) drained to the outfall, ar	nd an estimate of the total surface area
Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)	Outfall Number	Area of Impervious Surface	Total Area Drained
	SEE ATTACHMENT 2F-I/IV.A	(provide airis)	Normber	(provide units)	(provide units)
		•			
storm v	n water, method of treatment, stori vater runoff, materials loading and	age, or disposal; past and p	present materials m	e years have been treated, stored or dispos anagement practices employed to minimiz equency in which pesticides, herbicides, so	e contact by these materials with
applied	EMBNT 2F-IV.B				
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		- G			
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descrip	ech outfall, provide the location and otion of the treatment the storm wa solid or fluid wastes other than by o	ter receives, including the s	structural and nonst schedule and type of	ructural control measures to reduce pollut f maintenance for control and treatment me	ants in storm water runoff, and a easures and the ultimate disposa
Outfall	T				List Codes from
Number	SEE ATTACHMENT 2F-IV.C		Treatment		Table 2F-1
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EPA ID Number (copy from Item 1 of Form 1)
DC0000141

VII. Discharge Information	的时间不是自然与 对 对。	(1) (1) (1)	建筑的 的 100 100	Arean Color (19) Service Visited				
	oceeding. Complete one set of tables for each or re included on separate sheets numbers VII-1 a		the outfall number in the	space provided.				
E Potential discharges not covered by currently use or manufacture as an int	analysis – is any toxic pollutant listed in table ermediate or final product or byproduct?	2F-2, 2F-3, or	2F-4, a substance or a	component of a substance which you				
Yes (list all such pollutants	Yes (list all such pollutants below) No (go to Section IX)							
VIII. Biological Toxicity Testing	Data	San de sort a						
	believe that any biological test for acute or chro	nic toxicity has	been made on any of yo	ur discharges or on a receiving water in				
relation to your discharge within the last 3	years?	9400	No (go to Section IX)	S. discharges of the a receiving water at				
Yes (list the name, address,	VII performed by a contract laboratory or consuland telephone number of, and pollutants	ulting firm?	No (go to Section X)					
A Name	laboratory or firm below) B Address		rea Code & Phone No.	D. Pollutants Analyzed				
CAPE FEAR ANALYTICAL	3306 KITTY HAWK RD. SUITE 120		295.0421	PCB CONGENERS				
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X. Certification								
		W. HALLES BOLLES	or supervision in accord					
that qualified personnel properly gather and directly responsible for gathering the info	rument and all attachments were prepared und ind evaluate the information submitted Based or imation, the information submitted is, to the be ng false information, including the possibility of fi	n my inquiry of to est of my knowle	he person or persons whedge and belief, true, ac	curate, and complete. I am aware that				
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Attachment 2F-I/IV.A Outfall Details

		Latitude			Longitude		Basin Area	
Outfall No	Deg	Min	Sec	Deg	Min	Sec	(Acres)	Receiving Water
001	38	52	19	76	59	29	2.15	Anacostia River
005	38	52	18	76	59	41	3.74	Anacostia River
006	38	52	18	76	59	43	1.42	Anacostia River
007	38	52	18	76	59	45	2.07	Anacostia River
008	38	52	20	76	59	49	12.55	Anacostia River
009	38	52	21	76	59	53	12.55	Anacostia River
013	38	52	16	76	59	34	5.08	Anacostia River
014A	38	52	29	76	59	57	4.62	Anacostia River
MS4-001E	38	52	23	76	59	53	4.41	Anacostia River
CSO-015G	38	52	23	76	59	37	4.73	Anacostia River
CSO-015H	38	52	28	76	59	37	6.69	Anacostia River

^{*}CSO-014F is inactive and out of service.

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Outfall No	Building No	Material Management Practice Description
		Structures (Flammables in metal cabinets, drums containing waste materials,
		subcontractor drum storage area)
001	Waste Storage Area	Materials (spill kit)
004 8 043	100	Dumpster (1 Dumpster)
001 & 013	166	Materials (2 spill kits) Dumpsters (2 dumpsters)
		1 2 22 2
005	45.9.53	Structures (portable toolbox)
005	46 & 67	Tanks (portable generator belly tank) Materials (transformer)
		Dumpsters
oor	70	
005	70	Tanks (generator belly tank) Dumpsters (3 dumpsters)
006	292 & 394	Structures (transformer under roof)
006	292 & 394	Dumpsters (2 dumpsters)
006, 007, & 008	76	
000,007, & 008	170	Tanks (portable grease bin) Dumpsters (1 dumpster)
	į.	Equipment (ventilation)
		Structures (loading/unloading area, transformer)
007 & 008	111	Tanks (2 aboveground storage tanks, underground storage tank)
007 & 008	- 111	Dumpsters (4 dumpsters)
008	33	Materials (Pest control traps)
000	33	Dumpsters (1 dumpster)
		Equipment (office trailers)
008	37, 39, & 109	Structures (conex box, portable tool boxes)
008	122	Tanks (generator belly tank)
008	36	Dumpsters (3 dumpsters)
008	36	Dumpsters (1 dumpsters)
009	7	Structures (transformer)
009	213	Equipment (ventilation)
003	213	Materials (bricks, discarded furniture, sandbags)
009	105 & 112	Structures (loading/unloading area)
009	103 & 112	Tanks (generator belly tank)
009	183	Equipment (transformer)
009 & MS4-001E	197	Structures (construction laydown area)
003 & WI34-001E	137	Materials (flammable and chemical storage locker, inedible grease drums)
		Structures (loading/unloading area, sewage lift station, 2 transformers)
013	211	Tanks (generator belly tank)
013	405	Equipment (vehicles)
013 & CSO-015	218	Structures (transformer)
013 0 030 013	210	Structures (transformer)
		Dumpsters (dumpster)
	3	Materials (compressed gas, miscellaneous metals, pest control trap)
		Structures (flammable and chemical storage locker, fueling area contaminment berm)
CSO-014 & GSA-001	116 & 118	Tanks (2 large above ground fuel tanks)
C30 014 G 037 001		
CSO-015	169	Dumpsters (2 dumpsters)
CSO-015	169	Dumpsters (2 dumpsters) Structures (loading/unloading area, transformer)
Walker of the first of the		Dumpsters (2 dumpsters) Structures (loading/unloading area, transformer) Dumpsters (2 dumpsters)
CSO-015	203	Dumpsters (2 dumpsters) Structures (loading/unloading area, transformer) Dumpsters (2 dumpsters) Structures (loading/unloading area)
CSO-015		Dumpsters (2 dumpsters) Structures (loading/unloading area, transformer) Dumpsters (2 dumpsters) Structures (loading/unloading area) Tanks (2 aboveground storage tanks)
CSO-015 CSO-015	203 210	Dumpsters (2 dumpsters) Structures (loading/unloading area, transformer) Dumpsters (2 dumpsters) Structures (loading/unloading area) Tanks (2 aboveground storage tanks) Materials (cleaning supplies)
CSO-015 CSO-015	203	Dumpsters (2 dumpsters) Structures (loading/unloading area, transformer) Dumpsters (2 dumpsters) Structures (loading/unloading area) Tanks (2 aboveground storage tanks)
CSO-015 CSO-015	203 210	Dumpsters (2 dumpsters) Structures (loading/unloading area, transformer) Dumpsters (2 dumpsters) Structures (loading/unloading area) Tanks (2 aboveground storage tanks) Materials (cleaning supplies)
CSO-015 CSO-015	203 210	Dumpsters (2 dumpsters) Structures (loading/unloading area, transformer) Dumpsters (2 dumpsters) Structures (loading/unloading area) Tanks (2 aboveground storage tanks) Materials (cleaning supplies) Structures (transformer) Dumpsters (dumpsters) Equipment (miscellaneous equipment including furniture)
CSO-015 CSO-015	203 210	Dumpsters (2 dumpsters) Structures (loading/unloading area, transformer) Dumpsters (2 dumpsters) Structures (loading/unloading area) Tanks (2 aboveground storage tanks) Materials (cleaning supplies) Structures (transformer) Dumpsters (dumpsters)
CSO-015 CSO-015 CSO-015G	203 210 184	Dumpsters (2 dumpsters) Structures (loading/unloading area, transformer) Dumpsters (2 dumpsters) Structures (loading/unloading area) Tanks (2 aboveground storage tanks) Materials (cleaning supplies) Structures (transformer) Dumpsters (dumpsters) Equipment (miscellaneous equipment including furniture) Materials (miscellaneous metals, spill kit) Structures (transformer)
CSO-015 CSO-015 CSO-015G	203 210	Dumpsters (2 dumpsters) Structures (loading/unloading area, transformer) Dumpsters (2 dumpsters) Structures (loading/unloading area) Tanks (2 aboveground storage tanks) Materials (cleaning supplies) Structures (transformer) Dumpsters (dumpsters) Equipment (miscellaneous equipment including furniture) Materials (miscellaneous metals, spill kit)
CSO-015 CSO-015 CSO-015G	203 210 184	Dumpsters (2 dumpsters) Structures (loading/unloading area, transformer) Dumpsters (2 dumpsters) Structures (loading/unloading area) Tanks (2 aboveground storage tanks) Materials (cleaning supplies) Structures (transformer) Dumpsters (dumpsters) Equipment (miscellaneous equipment including furniture) Materials (miscellaneous metals, spill kit) Structures (transformer) Tanks (aboveground storage and generator belly tanks) Materials (trash cans)
CSO-015 CSO-015 CSO-015G	203 210 184	Dumpsters (2 dumpsters) Structures (loading/unloading area, transformer) Dumpsters (2 dumpsters) Structures (loading/unloading area) Tanks (2 aboveground storage tanks) Materials (cleaning supplies) Structures (transformer) Dumpsters (dumpsters) Equipment (miscellaneous equipment including furniture) Materials (miscellaneous metals, spill kit) Structures (transformer) Tanks (aboveground storage and generator belly tanks) Materials (transformers) Structures (2 transformers)
CSO-015 CSO-015 CSO-015G	203 210 184	Dumpsters (2 dumpsters) Structures (loading/unloading area, transformer) Dumpsters (2 dumpsters) Structures (loading/unloading area) Tanks (2 aboveground storage tanks) Materials (cleaning supplies) Structures (transformer) Dumpsters (dumpsters) Equipment (miscellaneous equipment including furniture) Materials (miscellaneous metals, spill kit) Structures (transformer) Tanks (aboveground storage and generator belly tanks) Materials (trash cans) Structures (2 transformers) Tanks (aboveground storage tank)
CSO-015 CSO-015 CSO-015G	203 210 184	Dumpsters (2 dumpsters) Structures (loading/unloading area, transformer) Dumpsters (2 dumpsters) Structures (loading/unloading area) Tanks (2 aboveground storage tanks) Materials (cleaning supplies) Structures (transformer) Dumpsters (dumpsters) Equipment (miscellaneous equipment including furniture) Materials (miscellaneous metals, spill kit) Structures (transformer) Tanks (aboveground storage and generator belly tanks) Materials (trash cans) Structures (2 transformers) Tanks (aboveground storage tank) Dumpster (1 dumpster)
CSO-015 CSO-015 CSO-015G CSO-015G	203 210 184 196	Dumpsters (2 dumpsters) Structures (loading/unloading area, transformer) Dumpsters (2 dumpsters) Structures (loading/unloading area) Tanks (2 aboveground storage tanks) Materials (cleaning supplies) Structures (transformer) Dumpsters (dumpsters) Equipment (miscellaneous equipment including furniture) Materials (miscellaneous metals, spill kit) Structures (transformer) Tanks (aboveground storage and generator belly tanks) Materials (trash cans) Structures (2 transformers) Tanks (aboveground storage tank) Dumpster (1 dumpster) Structures (loading/unloading area, transformers)
CSO-015 CSO-015 CSO-015G	203 210 184	Dumpsters (2 dumpsters) Structures (loading/unloading area, transformer) Dumpsters (2 dumpsters) Structures (loading/unloading area) Tanks (2 aboveground storage tanks) Materials (cleaning supplies) Structures (transformer) Dumpsters (dumpsters) Equipment (miscellaneous equipment including furniture) Materials (miscellaneous metals, spill kit) Structures (transformer) Tanks (aboveground storage and generator belly tanks) Materials (trash cans) Structures (2 transformers) Tanks (aboveground storage tank) Dumpster (1 dumpster) Structures (loading/unloading area, transformers) Tanks (Generator belly tank)
CSO-015 CSO-015 CSO-015G CSO-015G	203 210 184 196	Dumpsters (2 dumpsters) Structures (loading/unloading area, transformer) Dumpsters (2 dumpsters) Structures (loading/unloading area) Tanks (2 aboveground storage tanks) Materials (cleaning supplies) Structures (transformer) Dumpsters (dumpsters) Equipment (miscellaneous equipment including furniture) Materials (miscellaneous metals, spill kit) Structures (transformer) Tanks (aboveground storage and generator belly tanks) Materials (trash cans) Structures (2 transformers) Tanks (aboveground storage tank) Dumpster (1 dumpster) Structures (loading/unloading area, transformers) Tanks (Generator belly tank) Dumpster (1 dumpster)
CSO-015 CSO-015G CSO-015G CSO-015G & CSO-015H	203 210 184 196 4 175	Dumpsters (2 dumpsters) Structures (loading/unloading area, transformer) Dumpsters (2 dumpsters) Structures (loading/unloading area) Tanks (2 aboveground storage tanks) Materials (cleaning supplies) Structures (transformer) Dumpsters (aumpsters) Equipment (miscellaneous equipment including furniture) Materials (miscellaneous metals, spill kit) Structures (transformer) Tanks (aboveground storage and generator belly tanks) Materials (trash cans) Structures (2 transformers) Tanks (aboveground storage tank) Dumpster (1 dumpster) Structures (loading/unloading area, transformers) Tanks (Generator belly tank) Dumpster (1 dumpster) Materials (sandbags)
CSO-015 CSO-015 CSO-015G CSO-015G & CSO-015H CSO-015H	203 210 184 196 4 175 200	Dumpsters (2 dumpsters) Structures (loading/unloading area, transformer) Dumpsters (2 dumpsters) Structures (loading/unloading area) Tanks (2 aboveground storage tanks) Materials (cleaning supplies) Structures (transformer) Dumpsters (dumpsters) Equipment (miscellaneous equipment including furniture) Materials (miscellaneous metals, spill kit) Structures (transformer) Tanks (aboveground storage and generator belly tanks) Materials (transformers) Structures (2 transformers) Tanks (aboveground storage tank) Dumpster (1 dumpster) Structures (loading/unloading area, transformers) Tanks (Generator belly tank) Dumpster (1 dumpster) Materials (sandbags) Structures (loading/unloading area)
CSO-015 CSO-015 CSO-015G CSO-015G & CSO-015H CSO-015H CSO-015H	203 210 184 196 4 175 200 219 235	Dumpsters (2 dumpsters) Structures (loading/unloading area, transformer) Dumpsters (2 dumpsters) Structures (loading/unloading area) Tanks (2 aboveground storage tanks) Materials (cleaning supplies) Structures (transformer) Dumpsters (dumpsters) Equipment (miscellaneous equipment including furniture) Materials (miscellaneous metals, spill kit) Structures (transformer) Tanks (aboveground storage and generator belly tanks) Materials (transformers) Structures (2 transformers) Tanks (aboveground storage tank) Dumpster (1 dumpster) Structures (loading/unloading area, transformers) Tanks (Generator belly tank) Dumpster (1 dumpster) Materials (sandbags) Structures (loading/unloading area) Equipment (small generator)
CSO-015 CSO-015 CSO-015G CSO-015G	203 210 184 196 4 175 200	Dumpsters (2 dumpsters) Structures (loading/unloading area, transformer) Dumpsters (2 dumpsters) Structures (loading/unloading area) Tanks (2 aboveground storage tanks) Materials (cleaning supplies) Structures (transformer) Dumpsters (dumpsters) Equipment (miscellaneous equipment including furniture) Materials (miscellaneous metals, spill kit) Structures (transformer) Tanks (aboveground storage and generator belly tanks) Materials (transformers) Structures (2 transformers) Tanks (aboveground storage tank) Dumpster (1 dumpster) Structures (loading/unloading area, transformers) Tanks (Generator belly tank) Dumpster (1 dumpster) Materials (sandbags) Structures (loading/unloading area)

Attachment 2F-IV.C Structural BMPs

ВМР Туре	Drainage Basin	Treated Area (acres)	Location	Year of Installation
Permeable Pavement	001	0.18	SE Parking Lot, South Bldg 166	2002
Permeable Pavement	001	0.31	SE Parking Lot, South Bldg 166	2002
Bio Retention	001	0.08	SE Parking Lot, South Bldg 166	2002
Bio Retention	001	0.23	SE Parking Lot, South Bldg 166	2002
Permeable Pavement	001	0.09	East Bldg 166	2002
Pollutant Separator (Aguaswirl)	001	TBD	Parking Lot, South Bldg 166	2013
Sand Filter	MS4-001E	1.23	Isaac Hull Ave, South Bldg 197A	2002
Sand Filter	MS4-001E	TBD	NE corner of cooling tower	NA
Permeable Pavement	005	0.25	Parking Lot, SW Corner Bldg 70	2002
Pollutant Separator (Aquaswirl)	005	3.7	Parking Lot, NW Corner Bldg 70	2014
Bio Retention	006	0.36	Parking Lot, South Bldg 292	2002
Bio Retention	006	0.15	Parking Lot, SE Corner Bldg 292	2002
Rain Barrel	006	0.025	Parking Lot, South Bldg 292	2002
Permeable Pavement	007	0.33	Parking Lot, East of Willard Park	2002
Polutant Separator (Snout)	007	TBD	Parking lot West of Building 70	Prior to 2002
Polutant Separator (Vortex)	007	TBD	Parking lot West of Building 70	Prior to 2002
Permeable Pavement	008	0.16	East Bldg 22	2002
Permeable Pavement	008	TBD	East Bldg 22	2002
Permeable Pavement	008	TBD	East Bldg 22	2002
Permeable Pavement	008	TBD	East Bldg 22	2002
Bio Retention	008	0.35	East Bldg 76	2002
Bio Retention	008	0.17	East Bldg 76	2002
Sand Filter	008	0.84	NE Corner Bldg 201	2002
Trash Racks (6)	009	TBD	Building 213; Warrington Road and Isaac Hall Avenue	2014
Permeable Pavement	009	0.32	North Building 22	2002
Permeable Pavement	009	TBD	North Building 22	2002
Permeable Pavement	009	TBD	North Building 22	2002
Jelly Fish	009	1.17	West Bldg 28	2014
Jelly Fish	009	1.51	West Bldg 104	2014
Sand Filter	009	0.78	North Bldg 112	2002
Sand Filter	009	1.13	West Bldg 28	2002
Pollutant Separator	009	1.13	East Bldg 28	2002
Pollutant Separator (Aquaswirl)	009	TBD	Kennon St SE, between Bldgs 33 and 111	2013-2014
Bio Retention	013	0.22	South Bldg 211	2002
Sand Filter	013	1.69	West Bldg 405	2002
Sand Filter	013		West Bldg 406	2002
Pollutant Separator (Aquaswirl)	013	TBD	10th Street, NE Corner Bldg 211	2014
Pollutant Separator (Aquaswirl)	CSO-15G	TBD	O Street SE, Between Bldgs 104 and 405	2013 - 2014
Pollutant Separator (Aquaswirl)	CSO-15H	TBD	N Street SE, Between Bldgs 172 and 175	2013 - 2014
Tree-box Filter	CSO-15H	0.5	North Building 200	2010
Tree-box Filter	•	•	9th St SE, North of Bldg 58	2002

Notes:

TBD - to be determined

Attachment 2F-V 2010 Illicit Discharge Survey Observations

Outfall	Flow Observed	Flow Temp (°C)	pH	TRC (mg/L)	Clarity	Flow rate (L/min)	Source
001	None	NA	NA	NA	NA	NA	NA
005	Yes	20	7.68	0.03	Clear	<1	HVAC condensate
006	None	NA	NA	NA	NA	NA	NA
007	None	NA	NA	NA	NA	NA	NA
008	None	NA	NA	NA	NA	NA	NA
009	None	NA	NA	NA	NA	NA	NA
013	Yes	18	7.82	0.04	Clear	<1	HVAC condensate
014A	None	NA	NA	NA	NA	NA	NA
MS4-001E	None	NA	NA	NA	NA	NA	NA
CSO-014F	None	NA	NA	NA	NA	NA	NA
CSO-015G	None	NA	NA	NA	NA	NA	NA
CSO-015H	None	NA	NA	NA	NA	NA	NA

Notes:

HVAC - heating, ventilation, and air conditioning

L/min - Liters per minute

NA - Not Applicable

TRC - Total Residual Chlorine

OUTFALL 001

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

		num Values lude units)		erage Values oclude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease		N/A				
Biological Oxygen Demand (BOD5)	7.27 MG/L		3.4 MG/L		5	
Chemical Oxygen Demand (COD)						
Total Suspended Solids (TSS)						
Total Nitrogen	1.74 MG/L		0.9 MG/L		5	
Total Phosphorus	1 U MG/L		0.4U MG/L*		5	
pH	Minimum	Maximum	Minimum	Maximum		

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

	(inclu	um Values de units)	Avera (incl	age Values lude units)	Number		
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants	
NOT APPLICABLE							
				2.7			
		9					
	<u></u>						
					+-+		
			-		+		
			-		1		
					-		
			-				
			-				
			-				
			-		-		
			1		+		
					 		
			1		1		
				napolitica de la company			

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Part C - List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

	Maximum Values (include units)			age Values ude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighte I	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
TABLE 2F-2		7				
F COLIFORM	80 1000COL/ML				1	
N/N	0.299 MG/L				1	
TABLE 2F-3						
T LEAD	30.8 UG/L		9.6 UG/L		5	
T ZINC	333 UG/L		172 UG/L		5	
PCB-1016	0.574U UG/L		0.27 UG/L*		3	
PCB-1221	0.574U UG/L		0.27 UG/L*		3	
PCB-1232	0.574U UG/L		0.27 UG/L*		3	
PCB-1242	0.574U UG/L		0.27 UG/L*		3	
PCB-1248	0.574U UG/L		0.27 UG/L*		3	
PCB-1254	0.574U UG/L		0.27 UG/L*		3	
PCB-1260	0.574U UG/L		0.27 UG/L*		3	
TABLE 2F-4						
NONE						
OTHER						
T PAH	0.00516 UG/L		0.003 UG/L*		5	
T PCB	0.00971 UG/L	10-11-11-11-11-11-11-11-11-11-11-11-11-1	0.006 UG/L		3	
E COLI	1986 CFU/HML		467 CFU/HML		6	
				///		

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rainfall during storm event (in inches)	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event (gallons/minute or specify units)	6. Total flow from rain event (gallons or specify units)
3/18/2013 4/5/2013 4/29/2013 6/6/2013 11/26/2013 12/14/2013 1/10/2014 4/15/2014	356 425 440 1495 1805 405 2100 1280	0.25 0.21 0.18 2.04 1.82 0.33 1.18		0.007 CFS 0.003 CFS 0.001 CFS 0.125 CFS 0.089 CFS 0.016 CFS 0.041 CFS 0.085 CFS	0.01 MG 0.00 MG 0.00 MG 0.08 MG 0.06 MG 0.01 MG 0.03 MG 0.06 MG

7. Provide a description of the method of flow measurement or estimate.

ESTIMATED FLOW USING RUNOFF COEFFICIENTS AND DRAINAGE BASIN AREA (PERVIOUS AND IMPERVIOUS).

Outfall MS4-001E

OUTFALL MS4-001E

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant and CAS Number (if available)	1	mum Values clude units)	Average Values (include units)		Number	
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease		N/A				
Biological Oxygen Demand (BOD5)	71.1 MG/L		16 MG/L*		5	
Chemical Oxygen Demand (COD)						
Total Suspended Solids (TSS)	196 MG/L		67 MG/L*		5	
Total Nitrogen	9.0 MG/L	1	2.8 MG/L		5	
Total Phosphorus	0.772 MG/L		0.5 MG/L*		5	
pН	Minimum	Maximum	Minimum	Maximum		

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Supermontal Ac-	(inclu	um Values de units)	Avera (inci	age Values lude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
NOT APPLICABLE						
				2 Jul 1 1-15 (1 July 1		
		Communication and the second data.				

Continued from the Front

o on the land				
	t each pollutant shown in Table 2F-2, 2F-3 quirements. Complete one table for each ou		on to believe is presen	nt. See the instructions for additional details and
	Maximum Values	Average Values	Number	

	Maximum Values (include units)			age Values lude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
TABLE 2F-2						
N/N	4.04				1	
TABLE 2F-3						
T COPPER	101 1		56 UG/L		5	
PCB-1016	0.56		0.28 UG/L*		2	
PCB-1221	0.568U UG/L		0.28 UG/L*		2	
PCB-1232	0.568U UG/L		0.28 UG/L*		2	
PCB-1242	0.568U UG/L		0.28 UG/L*		2	
PCB-1248	0.568U UG/L		0.28 UG/L*		2	
PCB-1254	0.568U UG/L		0.28 UG/L*		2	
PCB-1260	0.568U UG/L		0.28 UG/L*		2	
TABLE 2F-4	STREET, STREET					
NONE						
OTHER						
T PCB	0.01 UG/L		0.007 UG/L		2	
E COLI	2420 CFU/HML		592 CFU/HML		5	
T PAH	0.0062U UG/L		0.003 UG/L*		5	
	100					
- 1						

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rainfall during storm event (in inches)	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event (gallons/minute or specify units)	6. Total flow from rain event (gallons or specify units)
3/18/2013	356	0.25		0.036 CFS	0.02 MG
4/5/2013	425	0.21		0.019 CFS	0.01 MG
4/29/2013	440	0.18		0.011 CFS	0.01 MG
6/6/2013	1495	2.04		0.288 CFS	0.19 MG
11/26/2013	1805	1.82		0.207 CFS	0.13 MG
1/10/2014	2100	1.18		0.100 CFS	0.07 MG
4/15/2014	1280	1.39		0.210 CFS	0.13 MG

7.	Provide a	description	of the	method	of flow	measurement	or	estimate
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ESTIMATED FLOW USING RUNOFF COEFFICIENTS AND DRAINAGE BASIN AREA (PERVIOUS AND IMPERVIOUS).

OUTFALL 005

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant and CAS Number (if available)	E 2012/05/05	mum Values clude units)		erage Values aclude units)	Number	
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease		N/A				
Biological Oxygen Demand (BOD5)	18.9 MG/L		6.4 MG/L		5	
Chemical Oxygen Demand (COD)						
Total Suspended Solids (TSS)	122 MG/L		35 MG/L		5	
Total Nitrogen	1.89 MG/L		0.91 MG/L		5	
Total Phosphorus	1 U MG/L		0.5 MG/L*		5	
pH	Minimum	Maximum	Minimum	Maximum		

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

	(includ	um Values de units)	Avera	age Values ude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample		of Storm Events Sampled	Sources of Pollutants		
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D-10 1:		
Part C - List each nollutant shown in Table 21-2 21-3	and 26-4 that you know or have reason to believe is present	See the instructions for additional details and
Tall O List cach pollutant shown in Table 21 -2, 21 -5	and 2F-4 that you know or have reason to believe is present.	See the mistractions for additional details and
convictoments Complete and table for each au		

	(includ	ım Values de units)		age Values lude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
TABLE 2F-2						
N/N	0.207 MG/L				1	
TABLE 2F-3						
T COPPER	80.5 UG/L		49 UG/L		5	
r LEAD	83.6 UG/L		25 UG/L		5	***************************************
r zinc	175 UG/L		82 UG/L		5	
PCB-1016	0.61 U UG/L		0.29 UG/L*		3	
PCB-1221	0.61 U UG/L		0.29 UG/L*		3	
PCB-1232	0.61 U UG/L		0.29 UG/L*		3	
PCB-1242	0.61 U UG/L		0.29 UG/L*		3	
PCB-1248	0.61 U UG/L		0.29 UG/L*		3	
PCB-1254	0.61 U UG/L		0.29 UG/L*		3	
PCB-1260	0.61 U UG/L		0.29 UG/L*		3	
TABLE 2F-4						
NONE						
OTHER						
г ран	0.0132U UG/L		0.004 UG/L*		4	
r PCB	0.02 UG/L		0.009 UG/L		3	
E COLI	648.8 CFU/HML		198 CFU/HML		5	

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rainfall during storm event (in inches)	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event (gallons/minute or specify units)	6. Total flow from rain event (gallons or specify units)
/5/2013	425	0.21		0.02 CFS	0.01 MG
1/29/2013	440	0.18		0.01 CFS	0.01 MG
/6/2013	1495	2.04	10	0.24 CFS	0.16 MG
1/26/2013	1805	1.82		0.18 CFS	0.11 MG
2/14/2013	405	0.33	1 3	0.05 CFS	0.03 MG
/10/2014	2100	1.18	1 4	0.09 CFS	0.06 MG
/15/2014	1280	1.39	1	0.18 CFS	0.11 MG

7. Provide a description of the method of flow measurement or estimate.

ESTIMATED FLOW USING RUNOFF COEFFICIENTS AND DRAINAGE BASIN AREA (PERVIOUS AND IMPERVIOUS).

OUTFALL 006

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number	
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease		N/A				
Biological Oxygen Demand (BOD5)	4.29 MG/L		2.2 MG/L		6	
Chemical Oxygen Demand (COD)						
Total Suspended Solids (TSS)	10.5 MG/L		5.7 MG/L*		6	
Total Nitrogen	2.72 MG/L		1.6 MG/L		6	
Total Phosphorus	1 U MG/L		0.4 MG/L*		6	
рН	Minimum	Maximum	Minimum	Maximum		

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Maximum Values (include units)		Average Values (include units)		Number	
Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
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	Grab Sample Taken During First 20	Grab Sample Taken During	Grab Sample Grab Sample Taken During Taken During	Grab Sample Taken During Taken During	Grab Sample Grab Sample of Storm

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Part C -	List each pollutant shown in Table 2F-2, 2	3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details an	d
	requirements. Complete one table for each	wiffall	

		m Values de <i>units</i>)		age Values lude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
TABLE 2F-2						
N/N	0.809 MG/L				1	
TABLE 2F-3						
T COPPER	52.9 UG/L		25 UG/L		6	
T ZINC	98.5 UG/L		38 UG/L		6	
PCB-1016	0.684 U UG/L		0.31 UG/L*		3	
PCB-1221	0.684 U UG/L		0.31 UG/L*		3	
PCB-1232	0.684 U UG/L		0.31 UG/L*		3	
PCB-1242	0.684 U UG/L		0.31 UG/L*		3	
PCB-1248	0.684 U UG/L		0.31 UG/L*		3	
PCB-1254	0.684 U UG/L		0.31 UG/L*		3	
PCB-1260	0.684 U UG/L		0.31 UG/L*		3	
TABLE 2F-4						
NONE						
OTHER						
Т РАН	0.025U UG/1		.005U UG/L*		5	
г рсв	0.00745 UG/L		.003 UG/L*		3	
E COLI	209.8 CFU/HML		97 CFU/HML		6	
CENZESCES IV						
.vc36-0001-16						

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1.	2.	3.	Number of hours between	5. Maximum flow rate during rain event (gallons/minute or specify units)	6.
Date of	Duration	Total rainfall	beginning of storm measured		Total flow from
Storm	of Storm Event	during storm event	and end of previous		rain event
Event	(in minutes)	(in inches)	measurable rain event		(gallons or specify units)
	356 425 440 1495 1805 405 2100 1280	0.25 0.21 0.18 2.04 1.82 0.33 1.18		0.01 CFS 0.00 CFS 0.00 CFS 0.09 CFS 0.06 CFS 0.01 CFS 0.03 CFS 0.06 CFS	0.01 MG 0.00 MG 0.00 MG 0.06 MG 0.04 MG 0.01 MG 0.02 MG 0.02 MG

7. Provide a description of the method of flow measurement or estimate.

ESTIMATED FLOW USING RUNOFF COEFFICIENTS AND DRAINAGE BASIN AREA (PERVIOUS AND IMPERVIOUS).

OUTFALL 007

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

	Maximum Values (include units)		Average Values (include units)		Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease		N/A				
Biological Oxygen Demand (BOD5)	22 MG/L		8.0 MG/L		5	
Chemical Oxygen Demand (COD)						
Total Suspended Solids (TSS)	85.5 MG/L		25 MG/L		5	
Total Nitrogen	1.172 MG/L		0.95 MG/L		5	
Total Phosphorus	1 U MG/L		0.5 MG/L*		5	
рН	Minimum	Maximum	Minimum	Maximum		

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Maximum Values (include units)		Average Values (include units)		Number	
Grab Sample Taken During First 20 Minutes		Grab Sample Taken During First 20 Minutes		of Storm Events Sampled	Sources of Pollutants
				 	
				 	
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	Grab Sample Taken During First 20	Grab Sample Taken During First 20 Flow-Weighted	Grab Sample Taken During Taken During	Grab Sample Taken During First 20 Minutes Flow-Weighted Composite Flow-Weighted Composite Flow-Weighted Composite Flow-Weighted Composite Flow-Weighted Composite Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes Flow-Weighted Composite Flow-Weighted Flow-Weighted Composite Flow-Weighted Flow-Weighted Composite Flow-Weighted Flow-Weighted Flow-Weighted Composite Flow-Weighted Fl

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		ete one table for each outfall.			I	ve is preser	it. See the instruc	
	Maximum Values (include units)		Average Values (include units)		١,	Number		
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		of Storm Events ampled	So	urces of Pollutants
TABLE 2F-2								
N/N	0.437 MG/L				1			
TABLE 2F-3						to receive their		
T COPPER	81.6 UG/L		47 UG/L		5			
PCB-1016	0.562 U UG/L		0.27 UG/L*		2			
PCB-1221	0.562 U UG/L		0.27 UG/L*		2			
PCB-1232	0.562 U UG/L		0.27 UG/L*		2			
PCB-1242	0.562 U UG/L		0.27 UG/L*		2			
PCB-1248	0.562 U UG/L		0.27 UG/L*		2			
PCB-1254	0.562 U UG/L		0.27 UG/L*		2			
PCB-1260	0.562 U UG/L		0.27 UG/L*		2		010-00-00	
TABLE 2F-4								
NONE								
OTHER								
T PCB	0.00768 UG/L		0.0045 UG/L		2			
E COLI	416 CFU/HML		171 CFU/HML		5			Commence William Conference of
T PAH	0.0128 U MG/L		0.004 MG/L*		4			
			 					
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Part D - Pro	ovide data for the str	orm event(s) which res	ulted in the maxim	um values for the flow wei	ahted	composite	sample	
Take Th	ovide data for the st	The even (s) viner res	dica in the maxim	4.	gined	Composito	5.	
1. Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rai during storr (in inch	m event	Number of hours between beginning of storm measured and of previous measurable rain ever	sured	ra (gallo	flow rate during in event or scify units)	6. Total flow from rain event (gallons or specify units)
12/14/2013 1/10/2014	440 1495 1805 405 2100 1280	0.18 2.04 1.82 0.33 1.18 1.39		3		0.001 CF 0.120 CF 0.090 CF 0.020 CF 0.040 CF 0.080 CF	s s s	0.00 MG 0.08 MG 0.06 MG 0.01 MG 0.03 MG 0.05 MG

7. Provide a description of the method of flow measurement or estimate.

ESTIMATED FLOW USING RUNOFF COEFFICIENTS AND DRAINAGE BASIN AREA (PERVIOUS AND IMPERVIOUS).

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OUTFALL 008

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant and CAS Number (if available)	Maximum Values (include units)			Average Values (include units)		
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease		N/A				
Biological Oxygen Demand (BOD5)	7.19 MG/L		2.8 MG/L*		4	
Chemical Oxygen Demand (COD)						
Total Suspended Solids (TSS)	50 MG/L	1000000	15 MG/L*		4	
Total Nitrogen	0.671 MG/L		0.35 MG/L		4	
Total Phosphorus	1 U MG/L		0.5 MG/L*		4	
pH	Minimum	Maximum	Minimum	Maximum		

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

	(inclu	um Values ide units)	Avera (incl	age Values lude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
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U data qualifier indicates concentration is below the method detection limit

*Indicates half of the detection limit (U qualified data) was used to determine the average concentration

Continued from the Front

Part C - List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the	e instructions for additional details and
requirements. Complete one table for each outfall.	

		im Values de units)	Avera (incl	age Values lude units)	Number		
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants	
TABLE 2F-2							
N/N	0.273 MG/L				1		
TABLE 2F-3							
T COPPER	110 UG/L	Water	30 UG/L*		4		
T ZINC	113 UG/L		50 UG/L		4		
PCB-1016	0.538 U UG/L		0.27 UG/L*		2	47	
PCB-1221	0.538 U UG/L		0.27 UG/L*		2		
PCB-1232	0.538 U UG/L		0.27 UG/L*		2		
PCB-1242	0.538 U UG/L		0.27 UG/L*		2		
PCB-1248	0.538 U UG/L	Varant na alam manana alam	0.27 UG/L*		2		
PCB-1254	0.538 U UG/L		0.27 UG/L*		2		
PCB-1260	0.538 U UG/L		0.27 UG/L*		2		
TABLE 2F-4							
NONE						 	
OTHER							
T PAH	0.0179 U MG/L		.004 MG/L*	- 14-4 15-4-	4		
T PCB	0.00698 UG/L		0.004 UG/L		2		
E COLI	547.5 CFU/HML		144 CFU/HML		4		
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Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. 3. Duration Total rainfall during storm event (in minutes) (in inches)		A. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event (gallons/minute or specify units)	6. Total flow from rain event (gallons or specify units)
	1495 1805 405 2100 1280	2.04 1.82 0.33 1.18 1.39		0.730 CFS 0.520 CFS 0.090 CFS 0.240 CFS 0.840 CFS	0.47 MG 0.33 MG 0.06 MG 0.15 MG 0.32 MG

7. Provide a description of the method of flow measurement or estimate.

ESTIMATED FLOW USING RUNOFF COEFFICIENTS AND DRAINAGE BASIN AREA (PERVIOUS AND IMPERVIOUS).

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Outfall 009

OUTFALL 009

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant and CAS Number (if available)	Maximum Values (include units)			Average Values (include units)		
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease	3.38 U MG/1	N/A	1.5 MG/L*		5	
Biological Oxygen Demand (BOD5)	2.58 MG/L		1.5 MG/L*		5	
Chemical Oxygen Demand (COD)						
Total Suspended Solids (TSS)	8.5 MG/L		4.3 MG/L*		5	
Total Nitrogen	2.31 MG/L		1.8 MG/L		5	
Total Phosphorus	0.68 MG/L		0.6 MG/L		5	
рН	Minimum	Maximum	Minimum	Maximum		

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

	(inclu	um Values de units)	Aver-	age Values lude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
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U data qualifier indicates concentration is below the method detection limit

	quirements. Complete	e one table for each or	utfall.		T	ve is present.	See the mstruc	tions for additional details and
	Maximum Values (include units)		Ave (inc	Average Values (include units)		Number		
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		of Storm Events Sampled	So	urces of Pollutants
TABLE 2F-2								
N/N	1.65 MG/L				1			
TABLE 2F-3								
T COPPER	19.2 UG/L		9.1 UG/L		5			
PCB-1016	0.544 U UG/L		0.27U UG/L*		3			
PCB-1221	0.544 U UG/L		0.27U UG/L*		3			
PCB-1232	0.544 U UG/L		0.27U UG/L*		3			
PCB-1242	0.544 U UG/L		0.27U UG/L*		3			
PCB-1248	0.544 U UG/L		0.27U UG/L*		3			
PCB-1254	0.544 U UG/L		0.27U UG/L*		3			
PCB-1260	0.544 U UG/L		0.27U UG/L*		3			
TABLE 2F-4								
NONE								
OTHER								
T PCB	0.00222 UG/L		0.0017 UG/L		3			
E COLI	1 U CFU/HML		.5 CFU/HML*		5			
T PAH	0.00556U MG/L		0.003 MG/L*		5			
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Part D - Pr	ovide data for the sto	rm event(s) which res	ulted in the maximu	im values for the flow we	eighted	composite san	nple.	
1. Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rai during storr (in inch	n event	4. Number of hours between the beginning of storm mea and end of previou measurable rain even	asured is	Maximum flo rain e (gallons/	o. w rate during event minute or y units)	6. Total flow from rain event (gallons or specify units)
4/5/2013 4/29/2013 6/6/2013 11/26/2013 12/14/2013 1/10/2014 4/15/2014	425 440 1495 1805 405 2100 1280	0.21 0.18 2.04 1.82 0.33 1.18 1.39				0.031 CFS 0.016 CFS 0.770 CFS 0.550 CFS 0.130 CFS 0.260 CFS 0.540 CFS		0.02 MG 0.01 MG 0.50 MG 0.36 MG 0.08 MG 0.17 MG 0.35 MG

7. Provide a description of the method of flow measurement or estimate.

ESTIMATED FLOW USING RUNOFF COEFFICIENTS AND DRAINAGE BASIN AREA (PERVIOUS AND IMPERVIOUS).

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OUTFALL 013

Part A ~ You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant and CAS Number (if available)	Maximum Values (include units)			Average Values (include units)		
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease		N/A				
Biological Oxygen Demand (BOD5)	2.13 MG/L		1.6 MG/L*		6	
Chemical Oxygen Demand (COD)						
Total Suspended Solids (TSS)	232 MG/L		41 MG/L*		6	
Total Nitrogen	1.72 MG/L		1.2 MG/L		6	50 W.S. GA (AMERICAN ALANA AND AND AND AND AND AND AND AND AND
Total Phosphorus	1 U MG/L		0.4 MG/L*		6	
pH	Minimum	Maximum	Minimum	Maximum		

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

requirements.									
	(inclu	um Values de units)	Aver (inc	age Values lude units)	Number				
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants			
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U data qualifier indicates concentration is below the method detection limit

*Indicates half of the detection limit (U qualified data) was used to determine the average concentration

Part C -	List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and	
	requirements. Complete one table for each outfall	

	(includ	ım Values de units)	(inc.	age Values lude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
TABLE 2F-2						
N/N	0.180 MG/L				1	
TABLE 2F-3						
T COPPER	62.2 UG/L		16 UG/L		6	
T LEAD	56.1 UG/L		11 UG/L*		6	
T ZINC	405 UG/L		92 UG/L		6	
PCB-1016	0.55 U UG/L		0.26 UG/L*		3	
PCB-1221	0.55 U UG/L		0.26 UG/L*		3	
PCB-1232	0.55 U UG/L		0.26 UG/L*		3	
PCB-1242	0.55 U UG/L		0.26 UG/L*		3	
PCB-1248	0.55 U UG/L		0.26 UG/L*		3	
PCB-1254	0.55 U UG/L		0.26 UG/L*		3	
PCB-1260	0.55 U UG/L		0.26 UG/L*		3	
TABLE 2F-4						
NONE						
OTHER						
T PAH	0.01 U MG/L		0.003 MG/L*		6	
T PCB	0.00549 UG/L		0.002 UG/L		3	
E COLI	461.1 CFU/HML		221 CFU/HML		6	
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Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. 2. Date of Storm of Storm Event (in minutes)		3. Total rainfall during storm event (in inches)	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event (gallons/minute or specify units)	6. Total flow from rain event (gallons or specify units)
	356 425 440 1495 1805 405 2100 1280	0.25 0.21 0.18 2.04 1.82 0.33 1.18		0.041 CFS 0.021 CFS 0.013 CFS 0.330 CFS 0.240 CFS 0.070 CFS 0.120 CFS 0.240 CFS	0.03 MG 0.01 MG 0.01 MG 0.21 MG 0.15 MG 0.04 MG 0.08 MG 0.15 MG

7. Provide a description of the method of flow measurement or estimate.

ESTIMATED FLOW USING RUNOFF COEFFICIENTS AND DRAINAGE BASIN AREA (PERVIOUS AND IMPERVIOUS).

Outfall 014A

OUTFALL 014A

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

	Maximum Values (include units)		Average Values (include units)		Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease	3.64 U MG/L	N/A	1.5U MG/L*		5	
Biological Oxygen Demand (BOD5)	14.5 MG/L		7.6 MG/L		6	
Chemical Oxygen Demand (COD)						
Total Suspended Solids (TSS)	36.5 MG/L		11 MG/L		6	
Total Nitrogen	2.05 MG/L		1.3 MG/L		6	
Total Phosphorus	1 U MG/L .		0.4 MG/L*		6	
pH	Minimum	Maximum	Minimum	Maximum		

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

24 54	(inclu	um Values de units)	Avera (incl	age Values lude units)	Number	Sources of Pollutants
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	
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Part C -	List each pollutant shown in	Table 2F-2, 2F-3,	and 2F-4 that you know	or have reason to believe is present.	See the instructions for additional details and
	requirements. Complete one	table for each out	fall		

		m Values le units)	(inci	age Values lude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
TABLE 2F-2						
N/N	0.293 MG/L				1	
TABLE 2F-3						
T COPPER	168 UG/L		118 UG/L		6	
PCB-1016	0.794 U UG/L		0.31 UG/L*		3	
PCB-1221	0.794 U UG/L		0.31 UG/L*		3	
PCB-1232	0.794 U UG/L		0.31 UG/L*		3	
PCB-1242	0.794 U UG/L		0.31 UG/L*		3	
PCB-1248	0.794 U UG/L		0.31 UG/L*		3	
PCB-1254	0.794 U UG/L		0.31 UG/L*		3	
PCB-1260	0.794 U UG/L		0.31 UG/L*		3	
TABLE 2F-4						
NONE						
OTHER						
T PCB	0.010 UG/L		0.003 UG/L		3	
E COLI	2419.6 CFU/HML		1292CFU/HML		6	
T PAH	0.00666U MG/L		0.003 MG/L*		5	
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737 - A.T. A.T. O. A. T. O. C. A. T. O						
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Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rainfall during storm event (in inches)	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event (gallons/minute or specify units)	6. Total flow from rain event (gallons or specify units)
3/18/2013	356	0.25	1	0.031 CFS	0.02 MG
4/5/2013	425	0.21		0.033 CFS	0.02 MG
4/29/2013	440	0.18	1	0.039 CFS	0.03 MG
6/6/2013	1495	2.04	1	0.090 CFS	0.06 MG
11/26/2013	1805	1.82		0.060 CFS	0.04 MG
12/14/2013	405	0.33		0.010 CFS	0.01 MG
1/10/2014	2100	1.18	1 1	0.010 CFS	0.01 MG
4/15/2013	1280	1.39	1	0.040 CFS	0.03 MG

7. Provide a description of the method of flow measurement or estimate.

ESTIMATED FLOW USING RUNOFF COEFFICIENTS AND DRAINAGE BASIN AREA (PERVIOUS AND IMPERVIOUS).

Outfall CSO-015G

OUTFALL CSO-015G

Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

	Maximum Values (include units)		Average Values (include units)		Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Ouring Storm 20 Flow-Weighted Events	Storm Events	Sources of Pollutants
Oil and Grease		N/A				
Biological Oxygen Demand (BOD5)	16.3 MG/L		8.5 MG/L		6	
Chemical Oxygen Demand (COD)						
Total Suspended Solids (TSS)	85 MG/L		24 MG/L*		6	
Total Nitrogen	1.71 MG/L		0.94 MG/L		6	
Total Phosphorus	1 U MG/L		0.4 MG/L*		4	
pH	Minimum	Maximum	Minimum	Maximum		

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

	(inclu	um Values ide units)	Avera (incl	Average Values (include units)		
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
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	ich pollutant shown in Table 2F-2, 2F-3 ements. Complete one table for each ou		on to believe is present. S	ee the instructions for additional details and
	Maximum Values (include units)	Average Values (include units)	Number	
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		m Values de units)	Avera (incl	age Values ude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
TABLE 2F-2						
N/N	0.513 MG/L				1	
TABLE 2F-3						
T COPPER	27.6 UG/L		18 UG/L	40-2-50767018-90-11-50178-5-1	6	
PCB-1016	0.626 U UG/L		0.27 UG/L*		3	
PCB-1221	0.626 U UG/L		0.27 UG/L*		3	
PCB-1232	0.626 U UG/L		0.27 UG/L*		3	
PCB-1242	0.626 U UG/L		0.27 UG/L*		3	
PCB-1248	0.626 U UG/L		0.27 UG/L*		3	
PCB-1254	0.626 U UG/L		0.27 UG/L*		3	
PCB-1260	0.626 U UG/L		0.27 UG/L*		3	
TABLE 2F-4						
NONE				200 mary 200 may 200 m		
OTHER						
T PCB	0.01 UG/L		0.005 UG/L		3	
E COLI	2419.6 CFU/HML		631 CFU/HML		6	
T PAH	0.01 U MG/L		.003U MG/L*		6	
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Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event (in minutes)	3. Total rainfall during storm event (in inches)	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event (gallons/minute or specify units)	6. Total flow from rain event (gallons or specify units)
11/26/2013	356 425 440 1495 1805 405 2100 1280	0.25 0.21 0.18 2.04 1.82 0.33 1.18		0.038 CFS 0.020 CFS 0.012 CFS 0.310 CFS 0.220 CFS 0.060 CFS 0.110 CFS 0.220 CFS	0.02 MG 0.01 MG 0.01 MG 0.20 MG 0.14 MG 0.04 MG 0.07 MG 0.11 MG

7. Provide a description of the method of flow measurement or estimate.

ESTIMATED FLOW USING RUNOFF COEFFICIENTS AND DRAINAGE BASIN AREA (PERVIOUS AND IMPERVIOUS).

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Outfall CSO-015H

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OUTFALL CSO-015H

Part A – You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

Pollutant and CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number	
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
Oil and Grease	2.88U MG/L	N/A			1	
Biological Oxygen Demand (BOD5)	20.1 MG/L		7.1 MG/L		6	
Chemical Oxygen Demand (COD)						
Total Suspended Solids (TSS)	187 MG/L		42 MG/L*		6	
Total Nitrogen	1.92 MG/L		0.1 MG/L		6	
Total Phosphorus	1 U MG/L		0.4 MG/L*		6	
pH	Minimum	Maximum	Minimum	Maximum		

Part B – List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

	(inclu	um Values de units)	Avera (incl	age Values ude units)	Number	
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants
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